

ZALCO LABORATORIES, INC.

Analytical & Consulting Services

4309 Armour Avenue
Bakersfield, California 93308

(661) 395-0539
FAX (661) 395-3069

July 1, 2015

Art McAdams
Art McAdams
P.O. Box 82046
Bakersfield, CA 93380-2046

TEL: 661-978-1455
FAX: -

Project ID:
RE: 1506085

Dear Art McAdams:

Zalco Laboratories, Inc. received 1 samples on 6/4/2015 for the analyses presented in the following report.

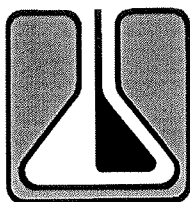
We appreciate your business and look forward to serving you in the future. Please feel free to call our office if you have any questions regarding these test results.

Sincerely,

Juan Magana
Project Manager
CC:Richard Thesken

NSS: Non Sufficient Sample H: Exceeds Analysis Hold Time TTLC: Total Threshold Limit Concentration STLC: Soluble Threshold Limit Concentration TCLP: Toxicity Characteristic
Leaching Procedure MCL: Maximum Contaminant Level *: See Case Narrative
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Project: RWQCB Oilfield Ponds - 2Q2015
Project #:
Attention: Art McAdams

Work Order No.: 1506085
Reported: 07/01/2015
Received: 06/04/2015 16:50

Lab Sample ID: 1506085-01

Collected By: Richaed Thesken

Client Sample ID: Section 35

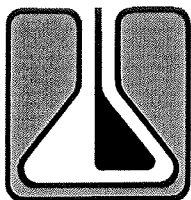
Date Collected: 6/4/2015 3:45:00PM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Alkalinity								
Total Alkalinity	270	10	mg/L		SM 2320B	6/5/15	6/5/15	SAM
Bicarbonate (HCO ₃)	250	10	mg/L		SM 2320B	6/5/15	6/5/15	SAM
Carbonate (CO ₃)	24	10	mg/L		SM 2320B	6/5/15	6/5/15	SAM
Hydroxide (OH)	<10	10	mg/L		SM 2320B	6/5/15	6/5/15	SAM
CAM, Toxicity (17 Metals)								
			<i>TTL Limits</i>					
Antimony	<0.20	0.20	500	mg/L	SW846 6010B	6/5/15	6/8/15	SS
Arsenic	<0.020	0.020	500	mg/L	SW846 6010B	6/5/15	6/8/15	SS
Barium	0.13	0.10	10000	mg/L	SW846 6010B	6/5/15	6/8/15	SS
Beryllium	<0.010	0.010	75	mg/L	SW846 6010B	6/5/15	6/8/15	SS
Cadmium	<0.010	0.010	100	mg/L	SW846 6010B	6/5/15	6/8/15	SS
Chromium	<0.050	0.050	2500	mg/L	SW846 6010B	6/5/15	6/8/15	SS
Cobalt	<0.10	0.10	8000	mg/L	SW846 6010B	6/5/15	6/8/15	SS
Copper	<0.050	0.050	2500	mg/L	SW846 6010B	6/5/15	6/8/15	SS
Lead	<0.050	0.050	1000	mg/L	SW846 6010B	6/5/15	6/8/15	SS
Mercury	<0.0020	0.0020	20	mg/L	SW846 7470A	6/8/15	6/8/15	SS
Molybdenum	<0.10	0.10	3500	mg/L	SW846 6010B	6/5/15	6/8/15	SS
Nickel	0.065	0.050	2000	mg/L	SW846 6010B	6/5/15	6/8/15	SS
Selenium	<0.05	0.05	100	mg/L	SW846 6010B	6/5/15	6/8/15	SS
Silver	<0.020	0.020	500	mg/L	SW846 6010B	6/5/15	6/8/15	SS
Thallium	<0.50	0.50	700	mg/L	SW846 6010B	6/5/15	6/8/15	SS
Vanadium	<0.10	0.10	2400	mg/L	SW846 6010B	6/5/15	6/8/15	SS
Zinc	<0.050	0.050	5000	mg/L	SW846 6010B	6/5/15	6/8/15	SS
General Chemistry								
			<i>MCL Limits</i>					
Fluoride	1.3	0.10	2	mg/L	EPA 300.0	6/8/15	6/8/15	MSS
Nitrate as NO ₃	<50.0	50.0	45	mg/L	EPA 300.0	6/8/15	6/8/15	MSS
Electrical Conductivity	1.8	0.010		mmhos/cm	SM 2510B	6/8/15	6/8/15	SAM
Bromide	1.0	0.10		mg/L	EPA 300.0	6/5/15	6/5/15	MSS
Chloride	380	50		mg/L	EPA 300.0	6/5/15	6/5/15	MSS
pH	8.67			pH Units	EPA 150.1	6/5/15	6/5/15	SAM
Sulfate as SO ₄	17	0.50		mg/L	EPA 300.0	6/8/15	6/8/15	MSS
Total Dissolved Solids	1000	10		mg/L	SM 2540C	6/8/15	6/10/15	MSS

Hardness

NSS: Non Sufficient Sample H: Exceeds Analysis Hold Time TTL: Total Threshold Limit Concentration STLC: Soluble Threshold Limit Concentration TCLP: Toxicity Characteristic
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Project #:
Attention: Art McAdams

Work Order No.: 1506085
Reported: 07/01/2015
Received: 06/04/2015 16:50

Lab Sample ID: 1506085-01
Client Sample ID: Section 35

Collected By: Richaed Thesken
Date Collected: 6/4/2015 3:45:00PM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Hardness								
Hardness (as CaCO ₃)	70	2.0	mg/L		SM 2340B	6/8/15	6/8/15	SS
Metals - As Received								
Lithium	0.16	0.10	mg/L		EPA 200.7	6/8/15	6/8/15	SS
Magnesium	4.3	0.050	mg/L		EPA 200.7	6/8/15	6/8/15	SS
Potassium	9.0	0.50	mg/L		EPA 200.7	6/8/15	6/8/15	SS
Sodium	400	7.0	mg/L		EPA 200.7	6/8/15	6/8/15	SS
Calcium	21	0.050	mg/L		EPA 200.7	6/8/15	6/10/15	SS
Iron	<0.10	0.10	mg/L		EPA 200.7	6/8/15	6/8/15	SS
Boron	1.1	0.10	mg/L		EPA 200.7	6/8/15	6/10/15	SS
Barium	0.14	0.10	mg/L		EPA 200.7	6/8/15	6/10/15	SS
Copper	<0.050	0.050	mg/L		EPA 200.7	6/8/15	6/8/15	SS
Silica (SiO ₂)	40	4.0	mg/L		EPA 200.7	6/8/15	6/8/15	SS
Strontium	0.71	0.10	mg/L		EPA 200.7	6/8/15	6/8/15	SS
Manganese	<0.030	0.030	mg/L		EPA 200.7	6/8/15	6/8/15	SS
Petroleum Hydrocarbons								
Diesel Range Hydrocarbons	1.12	0.05	mg/L		SW846 8015B	6/11/15	6/12/15	BIG
Gasoline Range Hydrocarbons	<0.050	0.050	mg/L		SW846 8015B	6/16/15	6/16/15	HLP
Motor Oil Range Hydrocarbons	3.07	0.15	mg/L		SW846 8015B	6/11/15	6/12/15	BIG
Surrogates	% Recovery	Recovery Limits	Flag					

a,a,a-Trifluorotoluene

85.6 69-125

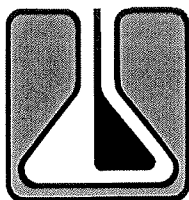
6/16/15 10:23

Semivolatile Organic Compounds

Indeno(1,2,3-cd)pyrene	<10.0	10.0	ug/L	SW846 8270C	6/8/15	6/15/15	JMM
Naphthalene	<10.0	10.0	ug/L	SW846 8270C	6/8/15	6/15/15	JMM
Acenaphthylene	<10.0	10.0	ug/L	SW846 8270C	6/8/15	6/15/15	JMM
Acenaphthene	<10.0	10.0	ug/L	SW846 8270C	6/8/15	6/15/15	JMM
Fluorene	<10.0	10.0	ug/L	SW846 8270C	6/8/15	6/15/15	JMM
Phenanthrene	<10.0	10.0	ug/L	SW846 8270C	6/8/15	6/15/15	JMM
Anthracene	<10.0	10.0	ug/L	SW846 8270C	6/8/15	6/15/15	JMM
Fluoranthene	<10.0	10.0	ug/L	SW846 8270C	6/8/15	6/15/15	JMM
Pyrene	<10.0	10.0	ug/L	SW846 8270C	6/8/15	6/15/15	JMM

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Collected By: Richaed Thesken

Client Sample ID: Section 35

Date Collected: 6/4/2015 3:45:00PM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Semivolatile Organic Compounds								
Benzo (a) anthracene	<10.0	10.0	ug/L		SW846 8270C	6/8/15	6/15/15	JMM
Chrysene	<10.0	10.0	ug/L		SW846 8270C	6/8/15	6/15/15	JMM
Benzo (b) fluoranthene	<10.0	10.0	ug/L		SW846 8270C	6/8/15	6/15/15	JMM
Benzo (k) fluoranthene	<10.0	10.0	ug/L		SW846 8270C	6/8/15	6/15/15	JMM
Benzo (a) pyrene	<10.0	10.0	ug/L		SW846 8270C	6/8/15	6/15/15	JMM
Dibenz (a,h) anthracene	<10.0	10.0	ug/L		SW846 8270C	6/8/15	6/15/15	JMM
Benzo (g,h,i) perylene	<10.0	10.0	ug/L		SW846 8270C	6/8/15	6/15/15	JMM

Surrogates	% Recovery	Recovery Limits	Flag
Nitrobenzene-d5	44.7	0-95	6/15/15 15:50
2-Fluorobiphenyl	45.7	0-92	6/15/15 15:50
Terphenyl-d14	43.3	0-100	6/15/15 15:50

Subcontracted Analyses

Gross Alpha	<15.0	15.0	pCi/L	SM 7110C	6/15/15	6/16/15	MCS
Radium-226	<3.00	3.00	pCi/L	E903.1	6/13/15	6/23/15	MCS
Radium-228	<2.00	2.00	pCi/L	EPA Ra-05	6/20/15	6/25/15	MCS
Uranium (ug/L)	<20.0	20.0	pCi/L	E908	6/24/15	6/24/15	MCS

Volatile Organic Compounds

m,p-Xylene	<5.00	5.00	ug/L	SW846 8260B	6/15/15	6/15/15	HLP
Benzene	<5.00	5.00	ug/L	SW846 8260B	6/15/15	6/15/15	HLP
Xylenes, total	0.00		ug/L	SW846 8260B	6/15/15	6/15/15	HLP
Methyl tert-Butyl Ether	<5.00	5.00	ug/L	SW846 8260B	6/15/15	6/15/15	HLP
Ethylbenzene	<5.00	5.00	ug/L	SW846 8260B	6/15/15	6/15/15	HLP
Toluene	<5.00	5.00	ug/L	SW846 8260B	6/15/15	6/15/15	HLP
o-Xylene	<5.00	5.00	ug/L	SW846 8260B	6/15/15	6/15/15	HLP

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	111	89-165	6/15/15 9:26
Toluene-d8	81.5	65-124	6/15/15 9:26
4-Bromofluorobenzene	105	94-114	6/15/15 9:26

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ZALCO LABORATORIES, INC. CHAIN OF CUSTODY, ID # 1506085
4309 Armour Avenue, Bakersfield, CA 93308 (661) 395-0539 FAX (661) 395-3069 www.zalcolabs.com

Page _____ of _____
Zalco Lab # _____
Client PO # _____

REPORT INFO

INVOICE INFO

ANALYSIS

Client: Art McAdams

Invoice To: Same as Client ☐

Address:

Address:

City, State, Zip:

City, State, Zip:

Attention:

Attention:

Phone:

Phone:

Results ☐

Results ☐

Fax:

Fax:

Email:

Email:

SAMPLED BY:

EMPLOYED BY:

Sample No. * Sample Description

Date Sample Time Type *

TEMPERATURE (C)

1 Section 35

6/14/08 1545 W

12X

Richard Thesken

2 thesken@yahoo.com

PROJECT ID: _____
QUOTE ID: _____

COMMENTS:

Turnaround Time: _____
Routine ☒ working days

Rush By _____ working days

Send Copy to State of CA? Yes ☐ No ☐

Attention To: _____

Send Copy to County? Yes ☐ No ☐

County: _____

RELINQUISHED BY: Signature

PRINT

COMPANY

Date Time

RECEIVED BY: Signature

PRINT

Richard Thesken

Consultant

6/14/08 1545

Richard Thesken

K Spingarn

NOTE: Samples are discarded 30 days after results unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client's expense.

*Sample Type Key: AQ-Aqueous; BS-Biosolid; DW-Drinking Water; GW-Ground Water; G-Gas; LPG-Liquid Petroleum Gas; OL-Oil; O-Other; P-Petroleum; S-Soil/Solid; ST-Storm Water; WW-Wastewater
*Sample No.: FOR OFFICE USE ONLY

ATTACHMENT B**Water Quality Analysis**

Wastewater samples collected from the ponds shall be analyzed by a laboratory certified by the Environmental Laboratory Accreditation Program using currently applicable United States Environmental Protection Agency-approved analytical methods for water for the following:

- A. Total dissolved solids;
- B. Metals listed in California Code of Regulations, title 22, section 66261.24. subdivision (a)(2)(A);
- C. Benzene, toluene, ethylbenzene, and xylenes;
- D. Total petroleum hydrocarbons as crude oil;
- E. Polynuclear aromatic hydrocarbons (including acenaphthene, acenaphthylene, anthracene, benzo[a]anthracene, benzo[b]fluoranthene, benzo[a]pyrene, benzo[g,h,i]perylene, chrysene, dibenzo[a,h]anthracene, fluoranthene, fluorine, indeno[1,2,3-cd]pyrene, naphthalene, phenanthrene, and pyrene);
- F. Radionuclides listed under California Code of Regulations, title 22, Table 64442;
- G. Major and minor cations (including sodium, potassium, magnesium, and calcium);
- H. Major and minor anions (including nitrate, chloride, sulfate, carbonate, bicarbonate, and bromide);
- I. Trace elements (including lithium, strontium, boron, iron, and manganese).

Reporting Requirements

Water Quality information shall be submitted in a technical report that includes at a minimum:

- A. Site plan(s) with the location(s) of where the samples were collected;
- B. A description of how the samples, representative of the pond contents, were collected;

Table(s) of analytical results organized by pond number with the data also submitted electronically as an Excel spreadsheet.